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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,041	12/12/2001	James E. Van Scoyoc	EDWA-001	6545
7590	07/07/2004		EXAMINER [REDACTED]	SAETHER, FLEMMING
Michael S. Neustel Suite No. 4 2534 South University Drive Fargo, ND 58103			ART UNIT [REDACTED]	PAPER NUMBER 3677

DATE MAILED: 07/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/017,041	SCOYOC, JAMES E. VAN	
	Examiner Flemming Saether	Art Unit 3677	
<i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i>			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.			
<ul style="list-style-type: none"> - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 			
Status			
1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>29 April 2004</u> .			
2a) <input checked="" type="checkbox"/> This action is FINAL. 2b) <input type="checkbox"/> This action is non-final.			
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) <input checked="" type="checkbox"/> Claim(s) <u>1,3,4,6,7 and 9-21</u> is/are pending in the application.			
4a) Of the above claim(s) <u>12-20</u> is/are withdrawn from consideration.			
5) <input type="checkbox"/> Claim(s) _____ is/are allowed.			
6) <input checked="" type="checkbox"/> Claim(s) <u>1,4,6,7,9-11 and 21</u> is/are rejected.			
7) <input type="checkbox"/> Claim(s) _____ is/are objected to.			
8) <input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.			
Application Papers			
9) <input type="checkbox"/> The specification is objected to by the Examiner.			
10) <input type="checkbox"/> The drawing(s) filed on _____ is/are: a) <input type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) <input type="checkbox"/> The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. §§ 119 and 120			
12) <input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) <input type="checkbox"/> All b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of:			
1. <input type="checkbox"/> Certified copies of the priority documents have been received.			
2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____.			
3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
13) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.			
a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.			
14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.			
Attachment(s)			
1) <input type="checkbox"/> Notice of References Cited (PTO-892)		4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .	
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)		5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)	
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .		6) <input type="checkbox"/> Other: _____ .	

Election/Restriction

Claims 12-20 remain withdrawn as being directed to a not elected group. .

Claim Rejections - 35 USC § 103

Claims 1, 4, 6, 7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hindle (H1258) in view of Schiefer (US 4,730,966) and Terrizzi (US 5,407,312). Hindle discloses a fluid flow bolt (see Fig 3) comprising a enlarged head (32) and a plurality of three equally spaced channels (50) formed on the shank extending from an end towards the head completely through the threading (see Fig. 3). The channels formed to have a depth shown to be at least 15% greater than the thread height. Hindle does not disclose the channels having a V-shape nor the channels being in a spiral configuration along the shank. Schiefer discloses channels (13') formed in a threaded portion of a bolt to have a V-shaped cross-section (see Fig. 3). At the time the invention was made, it would have been obvious for one of ordinary skill in the art to make the channel of Hindle in a V-shape as disclosed in Schiefer in order to save on material as discussed therein. Terrizzi teaches the equivalence of spiral (Fig. 8) and longitudinal channels (Fig. 1). At the time the invention was made, it would have been obvious for one of ordinary skill in the art to make the longitudinal channel of Hindle in a spiral in view of the teaching of Terrizzi.

Claims 3 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hindle in view of Schiefer as applied to claims 1, 4, 6, 7 and 9-11 above, and further in

view of Cook (US 2,037,066). Modified Hindle discloses the V-shaped grooves having a rounded narrow portion (see Fig. 3 of Schiefer) but does not disclose the rounded broad ends. Cook teaches to form the outer ends of a channel as rounded (at 16, 17). At the time the invention was made, it would have been obvious for one of ordinary skill in the art to provide the channels of modified Hindle with rounded outer ends as disclosed in Cook in order to provide smooth edges. The smooth edges are described as preventing injury (column 2, lines 43-47) which would have been found desirable in modified Hindle.

Response to Remarks

In response to applicant's remarks, the examiner maintains that the claim are currently not allowable and as such the rejections must be maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

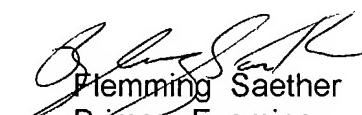
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Flemming Saether whose telephone number is 703-308-0182. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 703-306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Flemming Saether
Primary Examiner
Art Unit 3677